ipd4300P2malltsvdTES-10

# Defense Information Infrastructure (DII)
# Common Operating Environment (COE)

## Software Version Description (SVD) for the Latitude-Longitude-Time (LLT) Observation Application Program Interface Segment (MALLT) Release 4.3.0.0 Patch 2 of the Tactical Environmental Data Server (TEDS) Component of the Navy Integrated Tactical Environmental Subsystem (NITES)

## 6 July 1999

**Prepared for:**
**Space and Naval Warfare Systems Command**
**METOC Systems Program Office**
**(SPAWAR PMW-185)**
**San Diego, CA**

**Prepared by:**

**Fleet Numerical Meteorology and Oceanography Center**
**Monterey, CA**

**and**

**Integrated Performance Decisions, Inc.**
**Monterey, CA**

# Table of Contents



# List of Figures

This page intentionally left blank.

# 1 SCOPE

## 1.1 Identification

This Software Version Description (SVD) describes Patch 2 to the Latitude-Longitude-Time (LLT) Observation Application Program Interface (API) (MALLT) segment, Version 4.3.0.0, of the Tactical Environmental Data System (TEDS) component of the Navy Integrated Tactical Environmental Subsystem (NITES). Patch 2 also incorporates Patch 1, which was released only for the HP-UX segment. The MALLT segment provides APIs for the storage and retrieval of METOC point observations. This software is designed to run under the Defense Information Infrastructure (DII) Common Operating Environment (COE) release 3.1 on a Hewlett-Packard computer running HP-UX 10.20 or a personal computer running the Microsoft Windows NT 4.0 operating system with Service Pack 3 or higher.

## 1.2 System Overview

The APIs described in this document form a portion of the TEDS component of NITES. On 29 October 1996, the Oceanographer of the Navy issued a TESS Program Policy statement in letter 3140 Serial 961/6U570953, modifying the Program by calling for five seamless software versions that are DII COE compliant, preferably to level 5.

The five versions are:

- NITES Version I — The local data fusion center and principal METOC analysis and forecast system
- NITES Version II — The subsystem on the Joint Maritime Command Information System (JMCIS) or Global Command and Control System (GCCS) (NITES/Joint METOC Segment (JMS))
- NITES Version III — The unclassified aviation forecast, briefing, and display subsystem tailored to Naval METOC shore activities (currently satisfied by the Meteorological Integrated Data Display System (MIDDS))
- NITES Version IV — The Portable subsystem composed of independent Personal Computers (PCs)/workstations and modules for forecaster, satellite, communications, and Integrated Command, Control, Communications, Computer, and Intelligence Surveillance Reconnaissance (IC4ISR) functions (currently the Interim Mobile Oceanographic Support System (IMOSS))
- NITES Version V — Foreign Military Sales (currently satisfied by the Allied Environmental Support System (AESS))

NITES I acquires and assimilates various METOC data for use by US Navy and Marine Corps weather forecasters and tactical planners. NITES I provides these users with METOC data, products, and applications necessary to support the warfighter in tactical operations and decision making. NITES I provides METOC data and products to NITES I and II applications, as well as other systems requiring METOC data, in a heterogeneous, networked computing environment.

The NITES Concept of Operations and system architecture require that the METOC Database be distributed both in terms of application access to METOC data and products and in terms of physical location of the data repositories. The organizational structure of the database is influenced by these requirements, and the components of this distributed database are described below.

In accordance with DII COE database concepts, the METOC Database is composed of six DII COE-compliant *shared database* segments. Associated with each shared database segment is an API segment. The segments are arranged by data type as follows:

| **Data Type** | **Data Segment** | **API Segment** |
|---|---|---|
| Grid Fields | MDGRID | MAGRID |
| LLT Observations | MDLLT | MALLT |
| Textual Observations and Bulletins | MDTXT | MATXT |
| Remotely Sensed Data | MDREM | MAREM |
| Imagery | MDIMG | MAIMG |
| Climatology Data | Segments named by data type. To date, only DBDB-V segments (MDDBV and MADBV) have been released. | |

A typical client-server installation is depicted in Figure 1-1 on the next page. This shows the shared database segments residing on a DII COE SHADE database server, with a NITES I or II client machine hosting the API segments. Communication between API segments and shared database segments is accomplished over the network using American National Standards Institute (ANSI)-standard Structured Query Language (SQL).

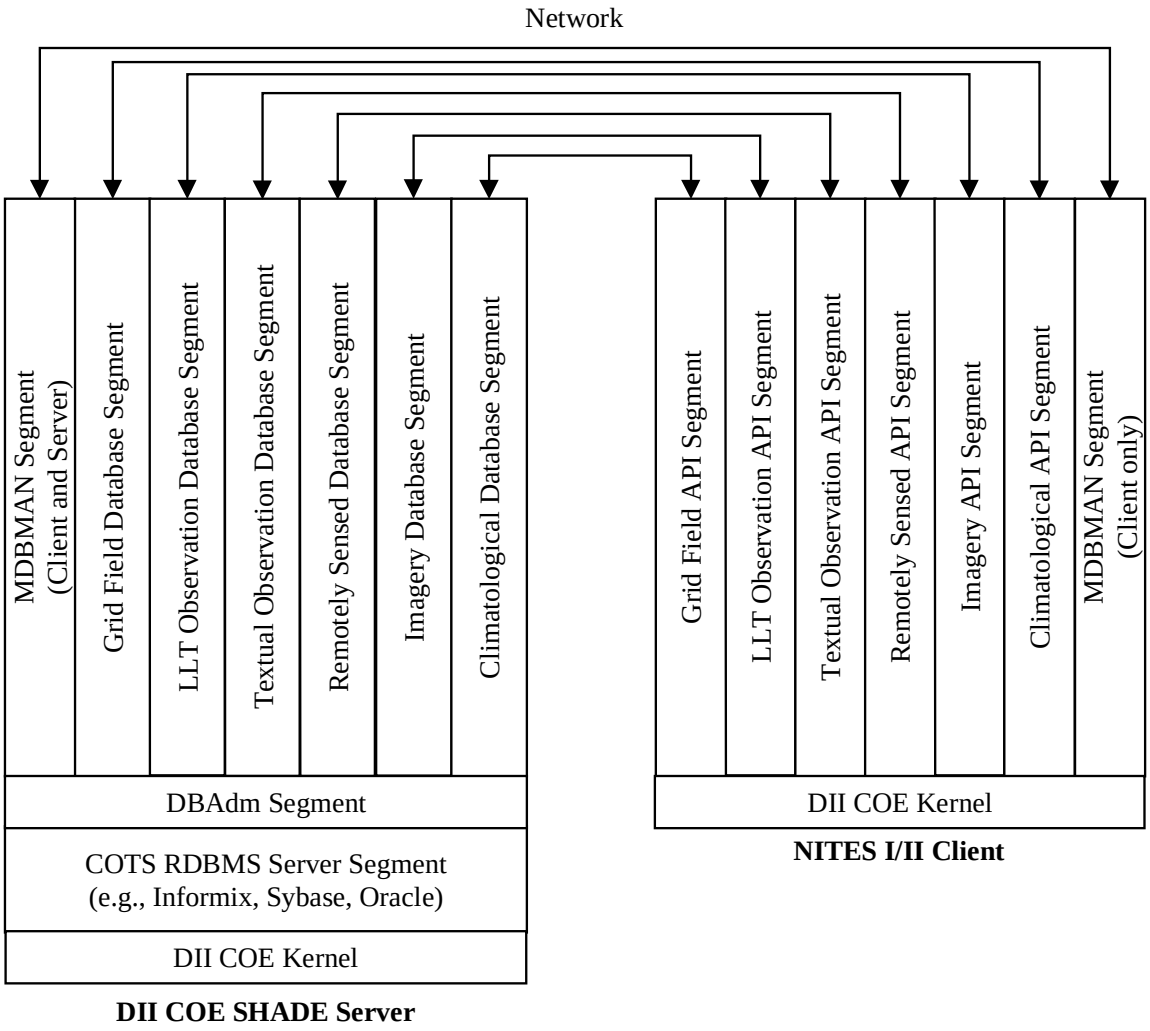


**Figure 1-1. TEDS Conceptual Organization**

The APIs in the MALLT segment deal with point observations. These include surface weather observations (hourlies, specials, synoptic observations, METAR reports Terminal Aerodrome Forecasts (TAFs), etc.), upper air observations (e.g., radiosonde reports, aircraft observations), and ocean soundings (bathythermograph, sound velocity profiles, etc.). For upper air and ocean soundings, the database may also store data derived from the original soundings in the form of upper air profiles and ocean profiles.

## 1.3 Product Information

### 1.3.1 Product Qualification

Test and Evaluation (T&E) of the MALLT 4.3.0.0 software were performed at the Integration Performance Decisions (IPD) facility in Middletown, RI, prior to delivery of the software. T&E of Patch 2 were performed at Fleet Numerical Meteorology and Oceanography Center, Monterey, CA, prior to delivery of the patch.

### 1.3.2 Product Restrictions

IPD's intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov. 1995).

### 1.3.3 Product Dependencies

The MALLT segment is hosted on the following hardware:

- Tactical Advanced Computer, TAC-3 (HP 750/755)/TAC-4 (HP J210)
- IBM-Compatible PC

The operating system requirements are:

- TAC-3/TAC-4: HP-UX 10.20
- PC: Windows NT 4.0 with Service Pack 3 or higher

The kernel requirements are:

- TAC-3/TAC-4: Kernel 3.0.1.0 with patches through P5
- PC: N/A

The following software must be properly installed prior to loading the MALLT segment:

- Appropriate operating system (as described above),
- Appropriate DII COE Kernel (as described above),
- DII COE Informix Connect Segment (INFXCN), version 1.0.1.0
- LLT Observation Database (MDLLT) Segment installed on a DII COE database server.

# 2 REFERENCED DOCUMENTS

## 2.1 Government Documents

| | |
|---|---|
| fnmoc_TEDS_DBDD_43<br>4 June 1999 | *Database Design Document for the Tactical Environmental Data System (TEDS)* |
| ipd4200malltipTES-10<br>9 October 1998 | *Installation Procedures (IP) for the Latitude-Longitude-Time (LLT) Observation API (MALLT) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database* |
| ipd4400malltrmTES-10<br>5 February 1999 | *Application Programming Interface Reference Manual (APIRM) for the Latitude-Longitude-Time (LLT) Observation API (MALLT) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database* |
| ipd4400malltpmTES-10<br>5 February 1999 | *Programming Manual (PM) for the Latitude-Longitude-Time (LLT) Observation API (MALLT) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database* |

## 2.2 Non-Government Documents

None.

This page intentionally left blank.

# 3 VERSION DESCRIPTION

## 3.1 Inventory of Materials Released

All physical media and associated documentation for the MALLT segment are listed below.

- MALLT segment v4.3.0.0 Patch 2 (HP-UX) Installation Tape (4-mm Digital Audio Tape (DAT) cartridge for TAC-3/TAC-4 hardware)
- MALLT segment v4.3.0.0 Patch 2 (Windows NT) Installation diskette(s) (3.5" high-density diskette, IBM format for Windows NT 4.0 with Service Pack 3)
- MALLT segment v4.4 APIRM, dated 5 February 1999
- MALLT segment v4.4 PM, dated 5 February 1999
- MALLT segment v4.3 IP, dated 9 October 1998
- MALLT segment v4.3.0.0 Patch 2 SVD, dated 6 July 1999.

## 3.2 Inventory of Software Contents

A list of all executables and environment files delivered is contained in Appendix A of this document.

## 3.3 Changes Installed

A list of changes installed since the Preliminary (Developer) Release of the MALLT software is contained in Appendix B of this document.

## 3.4 Waivers

There are no waivers associated with this software.

## 3.5 Adaptation Data

There are no unique-to-site data contained in the MALLT 4.3.0.0P2 release.

## 3.6 Installation Instructions

The MALLT Segment v4.3 series IP referenced in Section 2 of this document provides comprehensive installation instructions for the MALLT segment. The fully installed segment occupies approximately 7.93 MB of disk space on HP-UX machines and 5 MB on Windows NT machines. On TAC-3/TAC-4 machines the software requires a minimum of 128 MB of RAM, with 192 MB recommended. On Windows NT machines, the software requires a minimum of 32 MB of RAM, with 128 MB recommended.

## 3.7 Possible Problems and Known Errors

Known problems and errors with MALLT software are listed in Appendix C of this document.

# 4 NOTES

## 4.1 Glossary of Acronyms

| | |
|---|---|
| AESS | Allied Environmental Support System |
| ANSI | American National Standards Institute |
| API | Application Program Interface |
| APIRM | API Reference Manual |
| COE | Common Operating Environment |
| DAT | Digital Audio Tape |
| DII | Defense Information Infrastructure |
| GCCS | Global Command and Control System |
| IC4ISR | Integrated Command, Control, Communications, Computer, and Intelligence Surveillance Reconnaissance |
| IMOSS | Interim Mobile Oceanographic Support System |
| INFXCN | Informix Connect Segment |
| IP | Installation Procedures |
| IPD | Integrated Performance Decisions |
| JMCIS | Joint Maritime Command Information System |
| JMS | Joint METOC Segment |
| LLT | Latitude-Longitude-Time |
| MALLT | LLT Observation API Segment of the TESS(NC) METOC Database |
| MDLLT | LLT Observation Database Segment of the TESS(NC) METOC Database |
| METOC | Meteorology and Oceanography |

| | |
|---|---|
| MIDDS | Meteorological Integrated Data Display System |
| NC | Next Century |
| NITES | Navy Integrated Tactical Environmental Subsystem |
| PC | Personal Computer |
| PM | Programming Manual |
| PTR | Program Trouble Report |
| SQL | Structured Query Language |
| SVD | Software Version Description |
| T&E | Test and Evaluation |
| TAF | Terminal Aerodrome Forecast |

# Appendix A - List of Executables and Environment Files

## A.1 File Structure for HP-UX Delivery

```
/h/MALLT/MALLT.P1/Integ:
total 4
drwxrwxr-x 2   sysadmin COE  1024  Jul 1 18:29  TestSuite/
-rw-rw-r-- 1   sysadmin COE   276  Jul 1 18:46  VSOutput

/h/MALLT/MALLT.P1/Integ/TestSuite:
total 944
-r-xr-xr-x 1   sysadmin COE  353508  Jul 1 18:29  MALLTlibGet*
-r-xr-xr-x 1   sysadmin COE  98783   Jul 1 18:29  MALLTslGet*

/h/MALLT/MALLT.P1/SegDescrip:
total 32
-rw-r--r-- 1   sysadmin COE   661   Jul 1 18:46  DEINSTALL
-rw-rw-r-- 1   sysadmin COE   224   Jul 1 18:38  FileAttribs
-rwxr-xr-x 1   sysadmin COE   999   Jul 1 18:46  PostInstall*
-rw-r--r-- 1   sysadmin COE   8902  Jul 1 18:46  ReleaseNotes
-rw-r--r-- 1   sysadmin COE   296   Jul 1 18:46  SegInfo
-rw-r--r-- 1   sysadmin COE   417   Jul 1 18:46  SegName
-rw-r--r-- 1   sysadmin COE   185   Jul 1 18:46  VERSION
-rw-rw-rw- 1   sysadmin COE   119   Jul 1 18:46  Validated

/h/MALLT/MALLT.P1/bin:
total 640
-r-xr-xr-x 1 sysadmin COE 316255 Jul 1 18:29 libMALLTKernel.sl*

/h/MALLT/MALLT.P1/lib:
total 4336
-r--r--r-- 1 sysadmin COE 2204786 Jul 1 18:29 libMALLTKernel.a
```

This page intentionally left blank.

# Appendix B - Changes/Updates Since Preliminary Release

This release made the following changes:

| Pri | PTR # | Summary |
|---|---|---|
| | XL00004 | Clouds need to be handled in four groups instead of three. |
| | XL00005 | The following station IDs were not in the database. |
| 1 | 168 | When executing an interactive ingest, seven types and subtypes produce errors. |
| 1 | 172 | When executing get_stn_by_area, I receive an application error. |
| 1 | 173 | The get test driver does not function properly. |
| 1 | XC00002 | Upper Air Merging in LLT Segment |
| 2 | 153 | When one radiosonde observation (with upper air temperature data) is ingested into the LLT database, no others can be ingested. |
| 2 | 161 | Already in transaction error occurs when doing a delete by ID. |
| 2 | 169 | Test driver for ingest does not support the type 2 and subtype 11. |
| 2 | 170 | ASW Domain is not supported in current implementation of TEDS. |
| 2 | 225 | Memory not deallocated on disconnect. |
| 3 | 164 | Catalog request returning table names with trailing blanks. |
| 3 | 178 | Sea Water Temperature (rsSst) field of Synoptic Summary Structure is not being saved to TEDS database. |
| 3 | 195 | Need to add station elevation to fixed station reports. |
| 3 | 197 | Buoy needs outer join. |
| 3 | 236 | 56K memory leak in MALLT. |
| 3 | 246 | Need to be able to store 4qps per METAR instead of three. |
| 3 | 250 | On Catalog call the receipt time does not seem to be filtering out data. |
| 3 | 261 | Complete Y2K testing. |
| 3 | 274 | Return the number of records purged from the MALLTDeletebyQuery function. |

| Pri | PTR # | Summary |
|---|---|---|
| 3 | 282 | Short int is not big enough to handle horizontal visibility in meters. |
| 3 | 295 | Dead Locks and other table contention problems (SQLERROR –233 and 270) occurring when running with multiple decodes. |
| 3 | 296 | Make Test drivers UI menu driven. |
| 5 | 306 | The delete test driver does not return a good number deleted. |

# Appendix C - Known Problems and Errors

| Pri | PTR # | Summary |
|---|---|---|
| 2 | 289 | Error inserting clouds when doing a restore in MDBMAN. |
| 2 | XC00007 | Nites II MALLT Object Plot link to TEDS |
| 3 | 73 | Ship speed and direction need to be added to bathy, buoy, and synoptic reports. |
| 3 | 247 | Possibility that only a trend may be part of a TAF forecast. |
| 3 | 248 | Some targets are not used consistently on NT and HP makefiles in MALLT. |
| 3 | 275 | Add functionality to count records by query. |
| 3 | 280 | METAR Elevation is not filled in correctly. |
| 3 | 281 | Fill in the WMO station ID during METAR ingest. |
| 3 | 293 | Upper air purging is not working completely correctly. |
| 3 | 297 | MALLTDisconnect does not include MALLTSetConnection call. |
| 3 | XC00003 | SiteID Field being reset to NULL for buoys |
| 3 | XC00004 | Incorrect units for UA elevation |
| 3 | XC00005 | Incorrect units for UA elevation – Land Synoptics |
| 3 | XC00006 | Station elevation in METARS |
| 4 | 292 | Error message purging data. |
| 4 | 294 | METAR retrieval too slow. |
| 4 | 304 | Merged Observations contain redundant entries. |
| 5 | 27 | Change data type of fields to floats where conversions can be made or data may be derived. |

Detailed Program Trouble Reports (PTRs) are contained on the following pages.

# Program Trouble Report

**Report Number:** **289**

## Originator Information

**Author:** Robert Lincourt
**Site:** NP
**Phone:**
**Cross Ref#:**

**Created:** 12/16/98
**Employer:** Ned Hole
**E-mail:** rlincour

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 2 | Problem | Software | Duplicate |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.3 | SOLARIS 2.6 | 16/12/98 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
Error inserting clouds when doing a restore in MDBMAN.

**Steps Required to Duplicate the Problem:**

**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
Error inserting clouds when doing a restore in MDBMAN.

**Originator's Recommendation:**

## PTR Assignment (if known)

**Responsible Engineer(s):**
Denise Reniere
**Verified By:** Rob Lincourt **Date Verified:** 12/15/98

# Program Trouble Report

**Report Number:** **73**

## Originator Information

**Author:** Michael Sacauskis
**Site:** MC
**Phone:** 408.375.2693
**Cross Ref#:**
**Created:** 05/06/98
**Employer:** IPD
**E-mail:** msacausk

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 3 | Problem | Software | New |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.1 | HPUX 1020 and NT 4.0 (both) | 05/06/98 |
| TESS(NC)-LLT | 4.1 | HPUX 1020 and NT 4.0 (both) | 05/06/98 |

## Modules: MDLLT

MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
Ship speed and direction need to be added to bathy, buoy and synoptic reports.

**Steps Required to Duplicate the Problem:**

**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
Schema for buoy, baths, and ship synoptic reports need ship speed and direction added. API software needs to modified to retreive fields as well.

**Originator's Recommendation:**
Add fields to apropriate table definitions so that fields make code mods to store,retrieve and update the fields in the API.

## PTR Assignment (if known)

**Responsible Engineer(s):**
Michael Sacauskis
**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **247**

## Originator Information

**Author:** Michael Sacauskis
**Site:** MC
**Phone:** (831) 656-4777
**Cross Ref#:**
**Created:** 11/09/98
**Employer:**
**E-mail:** msacausk

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 3 | Problem | Software | New |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.2 | HPUX 1020 and NT 4.0 (both) | 11/09/98 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
Possiblity that only a trend may be part of a TAF forecast.

**Steps Required to Duplicate the Problem:**

**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
MALLT currently assumes to a general forecast and a trend will be part of a TAF. However it is possible that only a trend may be part of a forecast.

**Originator's Recommendation:**
Set up store such that trend only is valid.

## PTR Assignment (if known)

**Responsible Engineer(s):**
Sacauskis
**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **248**

## Originator Information

**Author:** Michael Sacauskis
**Site:** MC
**Phone:** (831) 656-4777
**Cross Ref#:**
**Created:** 11/09/98
**Employer:**
**E-mail:** msacausk

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 3 | Problem | Software | New |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.2 | HPUX 1020 and NT 4.0 (both) | 11/09/98 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:** Get, makefiles, to, conform, to, other, segments, makefiles.

## Description of the Problem

**One Line Problem Summary:**
Some targets are not used consistently on nt and hp makefiles in MALLT.

**Steps Required to Duplicate the Problem:**

**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**

**Originator's Recommendation:**

## PTR Assignment (if known)

**Responsible Engineer(s):**
Sacauskis
**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **275**

## Originator Information

**Author:** Joseph Kralicky
**Site:** NP
**Phone:**
**Cross Ref#:**

**Created:** 12/03/98
**Employer:**
**E-mail:** jkralick

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 3 | Enhancement | Software | Assigned |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.3 | HPUX 1020 and NT 4.0 and SOLARIS 2.6(all) | 12/03/98 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
Add functionality to count records by query

**Steps Required to Duplicate the Problem:**

**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
MDBMAN needs to be able to count records by query to enhance performance.

**Originator's Recommendation:**
Add GetCatalogCountByQuery and GetBrowseCountByQuery using the same query structures as the catalog and browse retrieve functions. These functions should return an integer.
These functions will be used for example when the user is doing an MDBMAN Browse, it will first check how many records will be browsed and alert the user if there are too many. The user
will then hopefully refine the query to be a smaller set of data.

## PTR Assignment (if known)

**Responsible Engineer(s):**
mike sacauskis
renee jones
**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **280**

## Originator Information

**Author:** Michael Frost
**Site:** MC
**Phone:**
**Cross Ref#:**

**Created:** 12/04/98
**Employer:**
**E-mail:** mfrost

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 3 | Problem | Software | New |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.3 | HPUX 1020 and NT 4.0 and SOLARIS 2.6(all) | 12/04/98 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
METAR Elevation not filled in correctly

**Steps Required to Duplicate the Problem:**
Ingest METAR ( From message ) and Retrieve it
**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
METAR elevation not filled in correctly. Currently all METAR elevations have the value 6.8378753e35. This should be filled in when LLT maps the call sign to the lat/lon.

**Originator's Recommendation:**

Fill in the elevation

## PTR Assignment (if known)

**Responsible Engineer(s):**

**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **281**

## Originator Information

**Author:** Michael Frost
**Site:** MC
**Phone:**
**Cross Ref#:**

**Created:** 12/04/98
**Employer:**
**E-mail:** mfrost

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 3 | Enhancement | Software | New |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.3 | HPUX 1020 and NT 4.0 and SOLARIS 2.6(all) | 12/04/98 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
Fill in the WMO station ID during METAR ingest

**Steps Required to Duplicate the Problem:**

**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
Fill in the WMO station ID during METAR ingest. Use the ICAO string as a look up into the stationID table to access WMO ID. Set the WMO ID inside the METAR OB structure.

**Originator's Recommendation:**

Make it so.

## PTR Assignment (if known)

**Responsible Engineer(s):**
Mike Sacauskis
Ned Hole
**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **293**

## Originator Information

**Author:** Michael Frost
**Site:** MC
**Phone:**
**Cross Ref#:**

**Created:** 12/18/98
**Employer:**
**E-mail:** mfrost

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 3 | Problem | Software | |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.3 | HPUX 1020 and NT 4.0 and SOLARIS 2.6(all) | 12/18/98 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
Upper air purging not working completely correct

**Steps Required to Duplicate the Problem:**
Insert ua reports from raw message ( or well planned driver that mimics this ) and retrieve and view the results
**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**

All of the upper air levels are not being merged correctly. Some levels are out of order

**Originator's Recommendation:**

## PTR Assignment (if known)

**Responsible Engineer(s):**
Ned Hole
Denise Reniere
**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **297**

## Originator Information

**Author:** Denise Reniere
**Site:** NP
**Phone:** 401-849-5952 ext.3334
**Cross Ref#:**

**Created:** 12/30/98
**Employer:**
**E-mail:** DReniere

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 3 | Problem | Software | New |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.3 | HPUX 1020 and NT 4.0 and SOLARIS 2.6(all) | 12/30/98 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
MALLTDisconnect does not include MALLTSetConnection call

**Steps Required to Duplicate the Problem:**
Connect to more than one METOC DB, the first one being MDLLT ... then disconnect from each... the MALLTDisconnect will fail since it did not access the correct database for its queries.

**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
Disconnecting from MDLLT database fails when application has multiple connections open.

**Originator's Recommendation:**
Add MALLTSetConnection call to the MALLTDisconnect API

## PTR Assignment (if known)

**Responsible Engineer(s):**

**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **292**

## Originator Information

**Author:** Michael Frost
**Site:** MC
**Phone:**
**Cross Ref#:**

**Created:** 12/18/98
**Employer:**
**E-mail:** mfrost

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 4 | Problem | Software | New |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.3 | HPUX 1020 and NT 4.0 and SOLARIS 2.6(all) | 12/18/98 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
Error message purging data

**Steps Required to Duplicate the Problem:**
Purge from a LLT db that is very populated. Soundings table with 20,000 rows would do it.
**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
Getting error messages while purging from LLT. Long Transaction.

**Originator's Recommendation:**

Make it so no error?>?.,.

## PTR Assignment (if known)

**Responsible Engineer(s):**
Ned Hole
Denise Reniere
**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **294**

## Originator Information

**Author:** Michael Frost
**Site:** MC
**Phone:**
**Cross Ref#:**
**Created:** 12/29/98
**Employer:**
**E-mail:** mfrost

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 4 | Problem | Software | |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.3 | HPUX 1020 and NT 4.0 and SOLARIS 2.6(all) | 12/29/98 |

**Modules:** MALLT,MDLLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
METAR retrieval too slow

**Steps Required to Duplicate the Problem:**
Insert lots of METARS, then retrieve lots of METARS.
**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
METAR retrieval too slow

**Originator's Recommendation:**

## PTR Assignment (if known)

**Responsible Engineer(s):**
Ned Hole
Denise Reniere
**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **304**

## Originator Information

**Author:** Karen Augustus
**Site:** NP
**Phone:** (401)849-5952 x3466
**Cross Ref#:**
**Created:** 02/08/99
**Employer:**
**E-mail:** kaugustu

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 4 | Problem | Software | New |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 4.0 | HPUX 1020 | 02/08/99 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
Merged Observations contain redundant entries

**Steps Required to Duplicate the Problem:**

**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
Added two of the same observations into TEDS, copied a COMEDS file to /h/data/global/N2PAR/data/DATAING/MEDS for ipp decoding into TEDS, once decoded copied the same file again for TEDS ingest. The observation is merged and duplicate entries are displayed. Only one entry is displayed in the data base but the second file is appended to the first.

**Originator's Recommendation:**

## PTR Assignment (if known)

**Responsible Engineer(s):**
Mike Frost
Mike Sacauskis
Chris Raulli
Rob Lincourt
**Verified By:** **Date Verified:**

# Program Trouble Report

**Report Number:** **27**

## Originator Information

**Author:** Michael Sacauskis
**Site:** MC
**Phone:** 860.599.3886 x
**Cross Ref#:**
**Created:** 03/02/98
**Employer:** IPD
**E-mail:** msacausk

## System Information

| Priority | Category | Type | Status |
|---|---|---|---|
| 5 | Enhancement | Software | Assigned |

## Open Systems

| System | Version | Platform | Date |
|---|---|---|---|
| TESS(NC)-LLT | 1.0 | HPUX 1020 and NT 4.0 (both) | 03/02/98 |

## Modules: MALLT

**Module Functions or other Identifying Keywords:**

## Description of the Problem

**One Line Problem Summary:**
Change data type of fields to floats where conversions can be made or data may be derived.

**Steps Required to Duplicate the Problem:**

**Repeatable?** Yes **Likelihood of Occurrence:**

**Problem Description:**
Change data type of fields to floats where conversions can be made or data may be derived.

**Originator's Recommendation:**
Make appropriate changes to data type fields to floats.

## PTR Assignment (if known)

**Responsible Engineer(s):**
Mike Sacauskis
**Verified By:** Mike Sacauskis **Date Verified:** 03/02/98